

Renaming Fractions

Name _____

$$\begin{aligned}
 2 \frac{3}{10} &= 2 + \frac{3}{10} \\
 &\quad \wedge \\
 &1 + \frac{10}{10} + \frac{3}{10} \\
 &\quad \text{(1 whole)} \\
 &1 + \frac{10}{10} + \frac{3}{10} \\
 &1 + \frac{13}{10} \\
 &1 \frac{13}{10}
 \end{aligned}$$

$$\cancel{2} \frac{3}{10} + \frac{10}{10} = 1 \frac{13}{10}$$

$$a) \cancel{3}^2 \frac{4}{5} = 2 \frac{4}{5} + \frac{5}{5} = 2 \frac{9}{5}$$

$$d) \cancel{13}^{12} \frac{15}{16} = 12 \frac{15}{16} + \frac{16}{16} = 12 \frac{31}{16}$$

$$b) \cancel{4}^4 \frac{2}{3} = 4 \frac{2}{3} + \frac{3}{3} = 4 \frac{5}{3}$$

$$e) \cancel{23}^{22} \frac{4}{9} = 22 \frac{4}{9} + \frac{9}{9} = 22 \frac{13}{9}$$

$$c) \cancel{8}^8 \frac{1}{2} = 8 \frac{1}{2} + \frac{2}{2} = 8 \frac{3}{2}$$

Subtracting with renaming:

Ex. 1

$$\begin{aligned}
 3 \frac{1}{6} &= \cancel{3}^2 \frac{1}{6} + \frac{6}{6} = 2 \frac{7}{6} \\
 - 1 \frac{5}{6} &= -1 \frac{5}{6} \\
 \hline
 &1 \frac{2}{6} = 1 \frac{1}{3}
 \end{aligned}$$

Ex. 2

$$\begin{aligned}
 \cancel{4}^3 \frac{1}{5} + \frac{5}{5} &= 3 \frac{6}{5} \\
 - 3 \frac{2}{5} &= -3 \frac{2}{5} \\
 \hline
 &\frac{4}{5}
 \end{aligned}$$